

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.285000G/BJD/MTT

APPLICATION NO.
09/855,797

APPLICANT
HARTLEY *et al.*

FILING DATE
May 16, 2000

GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>W</i>	AA1	4,673,640	06/16/1987	Backman, K.C.	435	68	04/30/1984
<i>W</i>	AB1	4,743,546	05/10/1988	Backman, K.C. <i>et al.</i>	435	108	02/13/1985
<i>W</i>	AC1	4,959,317	09/25/1990	Sauer, B.L.	435	172.3	04/29/1987
<i>W</i>	AD1	5,227,288	07/13/1993	Blattner, F.R.	435	6	10/01/1990
<i>W</i>	AE1	5,286,632	02/15/1994	Jones, D.H.	435	91.2	01/09/1991
<i>W</i>	AF1	5,354,668	10/11/1994	Auerbach, J.I.	435	91.1	10/15/1993
<i>W</i>	AG1	5,434,066	07/18/1995	Bebee, R.L., <i>et al.</i>	435	172.3	03/15/1994
<i>W</i>	AH1	5,470,727	11/28/1995	Mascarenhas, <i>et al.</i>	435	172.3	12/21/1993
<i>W</i>	AI1	5,591,609	01/07/1997	Auerbach, J.I.	435	91.2	02/03/1995
<i>W</i>	AJ1	5,614,389	03/25/1997	Auerbach, J.I.	435	91.2	09/26/1995
<i>W</i>	AK1	5,635,381	06/03/1997	Hooykaas, P.J.J. <i>et al.</i>	435	172.3	02/25/1993

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>W</i>	AL1	EP 0 160 571	11/06/1985	Europe			Yes No
<i>W</i>	AM1	EP 0 300 422	01/25/1989	Europe			Yes No
<i>W</i>	AN1	WO 91/02801	03/07/1991	WIPO			Yes No
<i>W</i>	AO1	WO 91/16427	10/31/1991	WIPO			Yes No
<i>W</i>	AP1	WO 92/20791	11/26/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>W</i>	AR	1	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage λ xis Gene Product Required for λ Excisive Recombination," <i>J. Biol. Chem.</i> 257:9658-9662, American Society for Biochemistry and Molecular Biology, Inc. (1982).
<i>W</i>	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination - Purification and Properties of the Cre Recombinase Protein," <i>J. Biol. Chem.</i> 259:1509-1514, American Society for Biochemistry and Molecular Biology, Inc. (1984).
<i>W</i>	AT	1	Abremski, K., <i>et al.</i> , "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products following Recombination," <i>Cell</i> 32:1301-1311, Massachusetts Institute of Technology (1983).

EXAMINER

William S. Holt

DATE CONSIDERED

3-30-03

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,650,308	07/22/1997	Baum, J.A.	435	172.3	06/07/1995
	AB2	5,658,772	08/19/1997	Odell, J.T. <i>et al.</i>	435	172.3	07/27/1994
	AC2	5,677,170	10/14/1997	Devine, S.E. <i>et al.</i>	435	320.1	03/02/1994
	AD2	5,677,177	10/14/1997	Wahl, G.M. <i>et al.</i>	435	325	06/07/1995
	AE2	5,710,248	01/20/1998	Grose, C.F.	530	327	07/29/1996
	AF2	5,723,765	03/03/1998	Oliver, M.J. <i>et al.</i>	800	205	06/07/1995
	AG2	5,733,733	03/31/1998	Auerbach, J.I.	435	6	02/01/1996
	AH2	5,733,743	03/31/1998	Johnson, K.S. <i>et al.</i>	435	69.1	11/18/1994
	AI2	5,744,336	04/28/1998	Hodges, T.K. <i>et al.</i>	435	172.3	03/08/1996
	AJ2	5,766,891	06/16/1998	Shuman, S.	435	91.41	12/19/1994
	AK2	5,776,449	07/07/1998	Baum, J.A.	424	93.2	09/20/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	WO 93/15191	08/05/1993	WIPO			Yes No
	AM2	WO 93/19172	09/30/1993	WIPO			Yes No
	AN2	CA 2,141,412	02/17/1994	Canada			Yes No
	AO2	WO 94/09127	04/28/1994	WIPO			Yes No
	AP2	WO 94/17176	08/04/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Abremski, K., <i>et al.</i> , "Bacteriophage P1 Cre- <i>loxP</i> Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," <i>J. Biol. Chem.</i> 261:391-396, American Society for Biochemistry and Molecular Biology, Inc. (1986).
	AS	2	Adams, D. E., <i>et al.</i> , "Cre- <i>lox</i> Recombination in <i>Escherichia coli</i> Cells: Mechanistic Differences from the <i>in Vitro</i> Reaction," <i>J. Mol. Biol.</i> 226:661-673, Academic Press Ltd. (1992).
	AT	2	Albert, H., <i>et al.</i> , "Site-specific integration of DNA into wild-type and mutant <i>lox</i> sites placed in the plant genome," <i>Plant J.</i> 7:649-659, Blackwell Science Ltd. (1995).

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William S. M. B.

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<i>M</i>	AA3	5,830,707	11/03/1998	Bushman, F.D.	435	69.7	06/05/1995
<i>M</i>	AB3	5,837,242	11/17/1998	Holliger, K.-P. <i>et al.</i>	424	136.1	05/14/1996
<i>M</i>	AC3	5,843,772	12/01/1998	Devine, S.E. <i>et al.</i>	435	320.1	06/10/1996
<i>M</i>	AD3	5,851,808	12/22/1998	Elledge, S.J. <i>et al.</i>	435	172.3	02/28/1992
<i>M</i>	AE3	5,858,657	01/12/1999	Winter, G.P. <i>et al.</i>	435	6	06/07/1995
<i>M</i>	AF3	5,871,907	02/16/1999	Winter, G.P. <i>et al.</i>	435	6	03/31/1994
<i>M</i>	AG3	5,874,259	02/23/1999	Szybalski, W.	435	91.1	11/21/1997
<i>M</i>	AH3	5,888,732	03/30/1999	Hartley, J.L. <i>et al.</i>	435	6	06/07/1996
<i>M</i>	AI3	5,916,804	06/29/1999	Bushman, F.D.	435	325	04/17/1998
<i>M</i>	AJ3	5,919,676	07/06/1999	Graham, F.L. <i>et al.</i>	435	172.3	06/07/1995
<i>M</i>	AK3	5,928,914	07/27/1999	Leboulch, P. <i>et al.</i>	435	172.3	11/05/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>M</i>	AL3	WO 97/06265	02/20/1997	WIPO			Yes No
<i>M</i>	AM3	WO 97/09436	03/13/1997	WIPO			Yes No
<i>M</i>	AN3	WO 97/25446	07/17/1997	WIPO			Yes No
<i>M</i>	AO3	WO 97/32481	09/12/1997	WIPO			Yes No
<i>M</i>	AP3	WO 98/10086	03/12/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>M</i>	AR	3	Andrews, B.J., <i>et al.</i> , "The FLP Recombinase of the 2 μ Circle DNA of Yeast: Interaction with Its Target Sequences," <i>Cell</i> 40:795-803, Massachusetts Institute of Technology (1985).
<i>3</i>	AS	3	Andrews, B.J., <i>et al.</i> , "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2 μ Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489, American Society for Microbiology (1986).
<i>M</i>	AT	3	Anton, M. and Graham, F. L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," <i>J. Virol.</i> 69:4600-4606, American Society for Microbiology (1995).

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W. H. A. S. S. A. L. V.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4	5,989,872	11/23/1999	Luo, Y. <i>et al.</i>	435	91.2	08/12/1997
	AB4	6,010,884	01/04/2000	Griffiths, A.D. <i>et al.</i>	435	69.7	05/29/1996
	AC4	6,143,557	11/07/2000	Hartley, J.L. <i>et al.</i>	435	320.1	01/20/1999
	AD4	6,171,861 B1	01/09/2001	Hartley, J.L. <i>et al.</i>	435	435	01/12/1998
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4	WO 98/53056	11/26/1998	WIPO			Yes No
	AM4	WO 99/10488	03/04/1999	WIPO			Yes No
	AN4	WO 99/21977	05/06/1999	WIPO			Yes No
	AO4	WO 99/25851	05/27/1999	WIPO			Yes No
	AP4	WO 99/55851	11/04/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	4	Araki, H., <i>et al.</i> , "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," <i>J. Mol. Biol.</i> 225:25-37, Academic Press Ltd. (1992).
	AS	4	Argos, P., <i>et al.</i> , "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5:433-440, IRL Press Ltd. (1986).
	AT	4	Atlung, T., <i>et al.</i> , "A versatile method for integration of genes and gene fusions into the λ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17, Elsevier Science Publishers B.V. (1991).

EXAMINER	Wells A. Smith	DATE CONSIDERED	3-30-03
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



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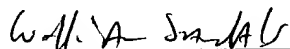
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5	EP 1 035 208	09/13/2000	Europe			Yes No
	AM5	WO 00/60091	10/12/2000	WIPO			Yes No
	AN5	WO 01/05961	01/25/2001	WIPO			Yes No
	AO5	WO 01/11058	02/15/2001	WIPO			Yes No
	AP5	WO 92/22650	12/23/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	Ausubel, F.M., <i>et al.</i> , "Maps of Plasmids pBR322 and pUC19," in <i>Current Protocols in Molecular Biology</i> , pp. 1.5.3-1.5.4, John Wiley & Sons, Inc., Boston, MA, (1995).
	AS	5	Ausubel, F. M., <i>et al.</i> , "Mutagenesis by the Polymerase Chain Reaction," in <i>Current Protocols in Molecular Biology</i> , pp. 8.5.1-8.5.9, John Wiley & Sons, Inc., Boston, MA, (1995).
	AT	5	Babineau, D., <i>et al.</i> , "The FLP Protein of the 2-micro Plasmid of Yeast," <i>J. Biol. Chem.</i> 260:12313-12391, American Society for Biochemistry and Molecular Biology, Inc. (1985).

EXAMINER



DATE CONSIDERED

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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>6</u>	Balakrishnan, R., <i>et al.</i> , "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for att-Int-mediated rearrangement and p_L expression vectors," <i>Gene</i> 138:101-104, Elsevier Science Publishers B.V. (1994).
	AS	<u>6</u>	Bayley, C. C., <i>et al.</i> , "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site-specific recombination system," <i>Plant Mol. Biol.</i> 18:353-361, Kluwer Academic Publishers (1992).
	AT	<u>6</u>	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323, Eaton Publishing (August 1996).

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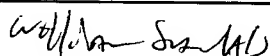
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Z	Bernard, P. and Couturier, M., "Cell Killing by the F Plasmid CcdB Protein Involves Poisoning of DNA-Topoisomerase II Complexes," <i>J. Mol. Biol.</i> 226:735-745, Academic Press Ltd. (1992).
	AS	Z	Bernard, P., <i>et al.</i> , "Positive-selection vectors using the F plasmid <i>ccdB</i> killer gene," <i>Gene</i> 148:71-74, Elsevier Science Publishers B.V. (1994).
	AT	Z	Bethke, B. and Sauer, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," <i>Nuc1. Acids Res.</i> 25:2828-2834, Oxford University Press (July 1997).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Betz, U. A. K., <i>et al.</i> , "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," <i>Curr. Biol.</i> 6:1307-1316, Current Biology Ltd. (October 1996).
	AS	8	Bhandari, P and Gowrishankar, J., "An <i>Escherichia coli</i> host Strain Useful for Efficient Overproduction of Cloned Gene Products with NaCl as the Inducer," <i>J. Bacteriol.</i> 179:4403-4406, American Society for Microbiology (July 1997).
	AT	8	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," <i>Gene</i> 46:97-101, Elsevier Science Publishers B.V. (1986).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Bloch, C.A., <i>et al.</i> , "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning," <i>Biochem. Biophys. Res. Comm.</i> 223:104-111, Academic Press, Inc. (1996).
	AS	2	Bochner, B.R., <i>et al.</i> , "Positive Selection for Loss of Tetracycline Resistance," <i>J. Bacteriol.</i> 143:926-933, American Society for Microbiology (1980).
	AT	2	Boyd, A. C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," <i>Nucl. Acids Res.</i> 21:817-821, Oxford University Press (1993).

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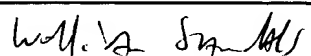
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>10</u>	Broach, J.R., <i>et al.</i> , "Recombination within the Yeast Plasmid 2 μ Circle is Site-Specific," <i>Cell</i> 29:227-234, Massachusetts Institute of Technology (1982).
	AS	<u>10</u>	Brunelli, J.P. and Pall, M.L., "A Series of Yeast/ <i>Escherichia coli</i> λ Expression Vectors Designed for Directional Cloning of cDNAs and <i>cre/lox</i> -Mediated Plasmid Excision," <i>Yeast</i> 9:1309-1318, John Wiley And Sons Ltd. (1993).
	AT	<u>10</u>	Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by <i>In Vivo cre/lox</i> -Mediated Recombination," <i>BioTechniques</i> 16:1061-1064, Eaton Publishing (1994).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	Bubeck, P., <i>et al.</i> , "Rapid cloning by homologous recombination <i>in vivo</i> ," <i>Nucl. Acids Res.</i> 21:3601-3602, Oxford university Press (1993).
	AS	<u>11</u>	Buchholz, F., <i>et al.</i> , "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," <i>Nucl. Acids Res.</i> 24:3118-3119, Oxford university Press (August 1996).
	AT	<u>11</u>	Buchholz, F., <i>et al.</i> , "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," <i>Nucl. Acids Res.</i> 24:4256-4262, Oxford University Press (November 1996).

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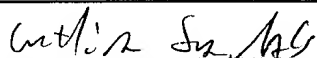
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	AR	<u>12</u>	Bushman, W., <i>et al.</i> , "Control of Directionality in Lambda Site Specific Recombination," <i>Science</i> 230:906-911, American Association for the Advancement of Science (1985).
	AS	<u>12</u>	Campbell, A.M., "Chromosomal Insertion Sites for Phages and Plasmids," <i>J. Bacteriol.</i> 174:7495-7499, American Society for Microbiology (1992).
	AT	<u>12</u>	Chapin, S.J., <i>et al.</i> , "Differential Expression of Alternatively Spliced Forms of MAP4: A Repertoire of Structurally Different Microtubule-Binding Domains," <i>Biochem.</i> 34:2289-2301, American Chemical Society (February 1995).

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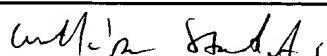
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	AR	<u>13</u>	Chatterjee, P.K., and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by <i>in vivo</i> P1 packaging of products of Cre-catalysed recombination between the endogenous and a transposed <i>loxP</i> site," <i>Nucl. Acids Res.</i> 25:2205-2212, Oxford University Press (June 1997).
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	AR	<u>14</u>	Dale, E.C. and Ow, D.W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," <i>Gene</i> 91:79-85, Elsevier Science Publishers B.V. (1990).
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	AR	<u>15</u>	Dang, D.T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ," <i>Develop. Genetics</i> 13:367-375, Wiley-Liss, Inc. (1992).
	AS	<u>15</u>	Davies, J. and Reichmann, L., "An antibody VH domain with a <i>lox</i> -Cre site integrated into its coding region: bacterial recombination within a single polypeptide chain," <i>FEBS Letts.</i> 377:92-96, Elsevier Science Publishers B.V. (1995).
	AT	<u>15</u>	Degryse, E., "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions," <i>Gene</i> 170:45-50, Elsevier Science Publishers B.V. (April 1996).

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	AR	<u>16</u>	Devine, S.E. and Boeke, J.D., "Efficient integration of artificial transposons into plasmid targets <i>in vitro</i> : a useful tool for DNA mapping, sequencing and genetic analysis," <i>Nucl. Acids Res.</i> 22:3765-3772, Oxford University Press (1994).
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	AT	<u>16</u>	Dymecki, S.M., "A modular set of <i>Flp</i> , <i>FRT</i> and <i>lacZ</i> fusion vectors for manipulating genes by site-specific recombination," <i>Gene</i> 171:197-201, Elsevier Science Publishers B.V. (June 1996).

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	AR	<u>17</u>	Elledge, S.J., <i>et al.</i> , "λYES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735, National Academy of Sciences (1991).
	AS	<u>17</u>	Feil, R., <i>et al.</i> , "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," <i>Biochem. Biophys. Res. Comm.</i> 237:752-757, Academic Press, Inc. (August 1997).
	AT	<u>17</u>	Ferguson, J., <i>et al.</i> , "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," <i>Gene</i> 16:191-197, Elsevier/North-Holland Biomedical Press (1981).

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	AR	<u>18</u>	Fiering, S., <i>et al.</i> , "An "in-out" strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the β -globin locus control region," <i>Proc. Natl. Acad. Sci. USA</i> 90:8469-8473, National Academy of Sciences (1993).
	AS	<u>18</u>	Filutowicz, M., <i>et al.</i> , "Purification of the <i>Escherichia coli</i> integration host factor (IHF) in one chromatographic step," <i>Gene</i> 147:149-150, Elsevier Science Publishers B.V. (1994).
	AT	<u>18</u>	Francia, M.V., <i>et al.</i> , "Gene Integration in the <i>Escherichia coli</i> Chromosome Mediated by Tn21 Integrase (Int21)," <i>J. Bacteriol.</i> 178:894-898, American Society for Microbiology (February 1996).

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	AR	19	Fukushige, S. and Sauer, B., "Genomic targeting with a positive-selection lox integration vector allows highly reproducible gene expression in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 89:7905-7909, National Academy of Sciences (1992).
	AS	19	Gage, P.J., <i>et al.</i> , "A Cell-Free Recombination System for Site-Specific Integration of Multigenic Shuttle Plasmids into the Herpes Simplex Virus Type 1 Genome," <i>J. Virol.</i> 66:5509-5515, American Society for Microbiology (1992).
	AT	19	Geoffroy, F., <i>et al.</i> , "A new phage display system to construct multicombinatorial libraries of very large antibody repertoires," <i>Gene</i> 151:109-113, Elsevier Science Publishers B.V. (1994).




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	AR	<u>20</u>	Glasgow, A.C., <i>et al.</i> , "DNA-binding Properties of the Hin Recombinase," <i>J. Biol. Chem.</i> 264:10072-10082, American Society for Biochemistry and Molecular Biology, Inc. (1989).
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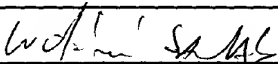
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	AR	<u>21</u>	Guo, F., <i>et al.</i> , "Asymmetric DNA bending in the Cre- <i>loxP</i> site-specific recombination synapse," <i>Proc. Natl. Acad. Sci. USA</i> 96:7143-7148, National Academy of Sciences (June 1999).
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	AT	<u>21</u>	Hardy, S., <i>et al.</i> , "Construction of Adenovirus Vectors through Cre- <i>lox</i> Recombination," <i>J. Virol.</i> 71:1842-1849, American Society for Microbiology (March 1997).




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	AR	22	Hasan, N. and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the p_{lac} promoter," <i>Gene</i> 56:145-151, Elsevier Science Publishers B.V. (1987).
	AS	22	Hasan, N., <i>et al.</i> , "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of <i>ori</i> - plasmids and their in vivo chromosomal integration and retrieval," <i>Gene</i> 150:51-56, Elsevier Science Publishers B.V. (1994).
	AT	22	Hashimoto-Gotoh, T., <i>et al.</i> , "Improved vector, pHSG664, for direct streptomycin-resistance selection: cDNA cloning with G:C-tailing procedure and subcloning of double-digested DNA fragments," <i>Gene</i> 41:125-128, Elsevier Science Publishers B.V. (1986).




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
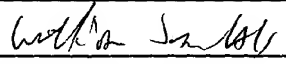
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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>23</u>	Hoekstra, M.F., <i>et al.</i> , "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," <i>Meth. Enzymol.</i> 194:329-342, Academic Press, Inc. (1991).
	AS	<u>23</u>	Hoess, R.H., and Abremski, K., "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," <i>J. Mol. Biol.</i> 181:351-362, Academic Press, Inc. (1985).
	AT	<u>23</u>	Hoess, R.H., and Abremski, K., "The Cre-lox Recombination System," in: <i>Nucleic Acids and Molecular Biology. Vol. 4</i> , Eckstein, F. and D. M. J. Lilley, eds., Springer-Verlag, Berlin, pp 99-109 (1990).

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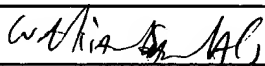
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	AR	<u>24</u>	Hoess, R.H., <i>et al.</i> , "P1 site-specific recombination: Nucleotide sequence of the recombining sites," <i>Proc. Natl. Acad. Sci. USA</i> 79:3398-3402, National Academy of Sciences (1982).
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	AT	<u>24</u>	Hoess, R. H., <i>et al.</i> , "The role of the <i>loxP</i> spacer region in P1 site-specific recombination," <i>Nucl. Acids Res.</i> 14:2287-2300, IRL Press Ltd. (1986).

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	AR	<u>25</u>	Hoogenboom, H.R., <i>et al.</i> , "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," <i>Nucl. Acids Res.</i> 19:4133-4137, Oxford University Press (1991).
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	AT	<u>25</u>	Jaffé, A., <i>et al.</i> , "Effects of the <i>ccd</i> Function of the F Plasmid on Bacterial Growth," <i>J. Bacteriol</i> 163:841-849, American Society for Microbiology (1985).

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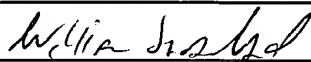
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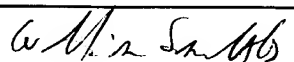
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	AR	<u>27</u>	Kim, S., <i>et al.</i> , "Lambda Int protein bridges between higher order complexes at two distant chromosomal loci <i>attL</i> and <i>attR</i> ," <i>Science</i> 256:198-263, American Association for the Advancement of Science (1992).
	AS	<u>27</u>	Kozak, M., "Comparison of Initiation of Protein Synthesis in Procaryotes, Eucaryotes, and Organelles," <i>Microbiol. Rev.</i> 47:1-45, American Society for Microbiology (1983).
	AT	<u>27</u>	Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," <i>Nucl. Acids Res.</i> 15:8125-8132, IRL Press Ltd. (1987).

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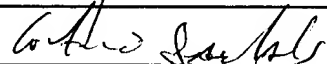
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	AR	<u>28</u>	Kozak, M., "Structural Features in Eukaryotic mRNAs That Modulate the Initiation of Translation," <i>J. Biol. Chem.</i> 266:19867-19870, American Society for Biochemistry and Molecular Biology, Inc. (1991).
	AS	<u>28</u>	Krafte, D.S., <i>et al.</i> , "Stable Expression and Functional Characterization of a Human Cardiac Na ⁺ Channel Gene in Mammalian Cells," <i>J. Mol. Cell. Cardiol.</i> 27:823-830, Academic Press Ltd. (1995).
	AT	<u>28</u>	Kühn, R., <i>et al.</i> , "Inducible Gene Targeting in Mice," <i>Science</i> 269:1427-1429, American Association for the Advancement of Science (1995).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>29</u>	Lafontaine, D. and Tollervey, D., "One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins," <i>Nucl. Acids Res.</i> 24:2469-2472, Oxford University Press (1996).
	AS	<u>29</u>	Lakso, M., <i>et al.</i> , "Targeted oncogene activation by site-specific recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6232-6236, National Academy of Sciences (1992).
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>30</u>	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," <i>Curr. Op. Genet. Develop.</i> 3:699-707, Current Biology Ltd. (1993).
	AS	<u>30</u>	Landy, A., "Dynamic, Structural, and Regulatory Aspects of λ Site-Specific Recombination," <i>Annu. Rev. Biochem.</i> 58:913-949, Annual Reviews, Inc. (1989).
	AT	<u>30</u>	Lebreton, B., <i>et al.</i> , "Mutations That Improve the Binding of Yeast FLP Recombinase to Its Substrate," <i>Genet.</i> 118:393-400, Genetics Society for America (1988).

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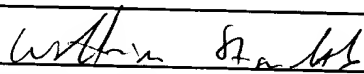
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	AR	<u>31</u>	Lee, E. C., <i>et al.</i> , "Genetic Analysis of <i>Escherichia coli</i> Integration Host Factor Interactions with Its Bacteriophage λ H' Recognition Site," <i>J. Bacteriol.</i> 173:609-617, American Society for Microbiology (1991).
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	AT	<u>31</u>	Leong, J.M., <i>et al.</i> , "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," <i>Proc. Natl. Acad. Sci. USA</i> 82:6990-6994, National Academy of Sciences (1985).

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	AS	<u>33</u>	Mahillon, J., <i>et al.</i> , "IS231 and other <i>Bacillus thuringiensis</i> transposable elements: a review," <i>Genetica</i> 93:13-26, Kluwer Academic Publishers (1994).
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*William Smalls*DATE CONSIDERED *5-30-03*




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	AR	<u>34</u>	McCarthy, J.E.G. and Brimacombe, R., "Prokaryotic translation: the interactive pathway leading to initiation," <i>Trends Genet.</i> 10:402-407, Elsevier Science Ltd. (1994).
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	AT	<u>34</u>	Miki, T., <i>et al.</i> , "Control of Segregation of Chromosomal DNA by Sex Factor F in <i>Escherichia coli</i> . Mutants of DNA Gyrase Subunit a Suppress <i>letD</i> (<i>ccdB</i>) Product Growth Inhibition," <i>J. Mol. Biol.</i> 225:39-52, Academic Press, Inc. (1992).

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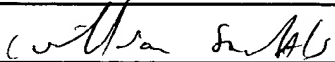
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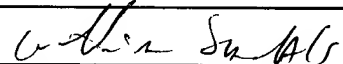
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	AR	<u>36</u>	Mullins, L.J., <i>et al.</i> , "Efficient Cre-lox linearisation of BACs: applications to physical mapping and generation of transgenic animals," <i>Nucl. Acids Res.</i> 25:2539-2540, Oxford University Press (June 1997).
	AS	<u>36</u>	Nagaraja, R. and Weisberg, R. A., "Specificity Determinants in the Attachment Sites of Bacteriophages HK022 and λ ," <i>J. Bacteriol.</i> 172:6540-6550, American Society for Microbiology (1990).
	AT	<u>36</u>	Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA <i>In Vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 72:1072-1076, National Academy of Sciences (1975).

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

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	AR	<u>37</u>	Nash, H.A., "Purification and Properties of the Bacteriophage Lambda Int Protein," <i>Meth. Enzymol.</i> 100:210-216, Academic Press, Inc. (1983).
	AS	<u>37</u>	Nash, H.A., "Bending and supercoiling of DNA at the attachment site of bacteriophage λ ," <i>Trends Biochem. Sci</i> 15:222-227, International Union of Biochemists and Elsevier Trends Journals (1990).
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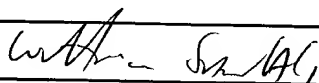
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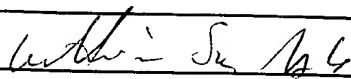
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	AR	<u>40</u>	Oliner, J.D., <i>et al.</i> , "In vivo cloning of PCR products in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 21:5192-5197, Oxford University Press (1993).
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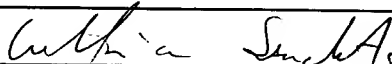
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	AR	<u>41</u>	Padgett, K.A. and Sorge, J.A., "Creating seamless junctions independent of restriction sites in PCR cloning," <i>Gene</i> 168:31-35, Elsevier Science Publishers B.V. (February 1996).
	AS	<u>41</u>	Palazzolo, M.J., <i>et al.</i> , "Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning," <i>Gene</i> 88:25-36, Elsevier Science Publishers B.V. (1990).
	AT	<u>41</u>	Pan, G., <i>et al.</i> , "Ligation of Synthetic Activated DNA Substrates by Site-specific Recombinases and Topoisomerase I," <i>J. Biol. Chem.</i> 268:3683-3689, American Society for Biochemistry and Molecular Biology, Inc. (1993).

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	AR	<u>42</u>	Parks, R.J. and Graham, F.L., "A Helper-Dependent System for Adenovirus Vector Production Helps Define a Lower Limit for Efficient DNA Packaging," <i>J. Virol.</i> 71:3293-3298, American Society for Microbiology (April 1997).
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	AT	<u>42</u>	Peredelchuk, M.Y. and Bennett, G.N., "A method for construction of <i>E. coli</i> strains with multiple DNA insertions in the chromosome," <i>Gene</i> 187:231-238, Elsevier Science Publishers B.V. (March 1997).

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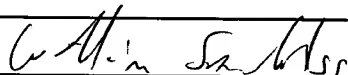
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	AR	<u>43</u>	Pichel, J.G., <i>et al.</i> , "Timing of SV40 oncogene activation by site-specific recombination determines subsequent tumor progression during murine lens development," <i>Gene</i> 8:3333-3342, Elsevier Science Publishers B.V. (1993).
	AS	<u>43</u>	Pierce, J.C., <i>et al.</i> , "A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy," <i>Proc. Natl. Acad. Sci. USA</i> 89:2056-2060, National Academy of Sciences (1992).
	AT	<u>43</u>	Podhajska, A.J., <i>et al.</i> , "Control of cloned gene expression by promoter inversion in vivo: construction of the heat-pulse-activated <i>att-nutL-p-att-N</i> module," <i>Gene</i> 40:163-168, Elsevier Science Publishers B.V. (1985).

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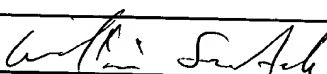
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	AR	<u>44</u>	Pósfai, G., <i>et al.</i> , "In vivo excision and amplification of large segments of the <i>Escherichia coli</i> genome," <i>Nucl. Acids Res.</i> 22:2392-2398, Oxford university Press (1994).
	AS	<u>44</u>	Prasad, P.V., <i>et al.</i> , "Substrate Recognition by the 2 μ m Circle Site-Specific Recombinase: Effect of Mutations within the Symmetry Elements of the Minimal Substrate," <i>Mol. Cell. Biol.</i> 6:4329-4334, American Society for Microbiology (1986).
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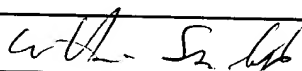
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	AR	<u>45</u>	Reed, R.R. and Grindley, N.D.F., "Transposon-Mediated Site-Specific Recombination in Vitro: DNA Cleavage and Protein-DNA Linkage at the Recombination Site," <i>Cell</i> 25:721-728, Massachusetts Institute of Technology (1981).
	AS	<u>45</u>	Reed, R.R., "Transposon-Mediated Site-Specific Recombination: A Defined in Vitro System," <i>Cell</i> 25:713-719, Massachusetts Institute of Technology (1981).
	AT	<u>45</u>	Richet, E., <i>et al.</i> , "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," <i>Cell</i> 46:1011-1021, Cell Press (1986).

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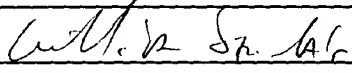
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	AR	<u>46</u>	Richet, E., <i>et al.</i> , "Synopsis of Attachment Sites during Lambda Integrative Recombination Involves Capture of a Naked DNA by a Protein-DNA Complex," <i>Cell</i> 52:9-17, Cell Press (1988).
	AS	<u>46</u>	Sadowski, P., "Site-Specific Recombinases: Changing Partners and Doing the Twist," <i>J. Bacteriol.</i> 165:341-347, American Society of Microbiology (1986).
	AT	<u>46</u>	Sadowski, P.D., "The F1p Recombinase of the 2-microns Plasmid of <i>Saccharomyces cerevisiae</i> ," <i>Prog. Nucl. Acid Res. Mol. Biol.</i> 51:53-91, Academic Press, Inc. (1995).

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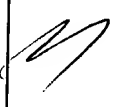


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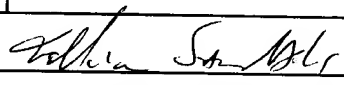
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	AR	<u>47</u>	Sauer, B., "Functional Expression of the <i>cre-lox</i> Site-Specific Recombination System in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 7:2087-2096, American Society for Microbiology (1987).
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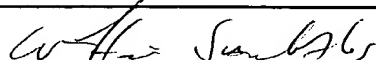
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>48</u>	Sauer, B., "Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," <i>Nucl. Acids Res.</i> 24:4608-4613, Oxford University Press (December 1996).
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	AM						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>49</u>	Sauer, B. and Henderson, N., "Cre-stimulated recombination at <i>loxP</i> -containing DNA sequences placed into the mammalian genome," <i>Nucl. Acids Res.</i> 17:147-161, IRL Press Ltd. (1989).
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	AT	<u>49</u>	Schindelhauer, D., and Cooke, H.J., "Efficient combination of large DNA <i>in vitro</i> : in gel site specific recombination (IGSSR) of PAC fragments containing α satellite DNA and the human HPRT gene locus," <i>Nucl. Acids Res.</i> 25:2241-2243, Oxford University Press (June 1997).

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	AR	<u>50</u>	Schlake, T., and Bode, J., "Use of Mutated FLP Recognition Target (FRT) Sites for the Exchange of Expression Cassettes at Defined Chromosomal Loci," <i>Biochemistry</i> 33:12746-12751, American Chemical Society (1994).
	AS	<u>50</u>	Segall, A.M. and Nash, H.A., "Synaptic intermediates in bacteriophage lambda site-specific recombination: integrase can align pairs of attachment sites," <i>EMBO J.</i> 12:4567-4576, Oxford University Press (1993).
	AT	<u>50</u>	Segall, A.M., and Nash, H.A., "Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the attL site into three distinct pathways," <i>Genes to Cells</i> 1:453-463, Blackwell Science Ltd. (May 1996).

EXAMINER	<i>W. H. Samuels</i>	DATE CONSIDERED	3-30-03
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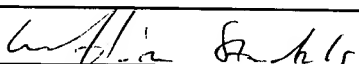
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>51</u>	Senecoff, J.F., <i>et al.</i> , "DNA Recognition by the FLP Recombinase of the Yeast 2 μ Plasmid - A Mutational Analysis of the FLP Binding Site," <i>J. Mol. Biol.</i> 201:405-421, Academic Press Ltd. (1988).
	AS	<u>51</u>	Sheffield, P., <i>et al.</i> , "Overcoming Expression and Purification Problems of RhoGDI Using a Family of "Parallel" Expression Vectors," <i>Prot. Expr. Purif.</i> 15:34-39, Academic Press, Inc. (February 1999).
	AT	<u>51</u>	Simpson, J.C., <i>et al.</i> , "Systematic subcellular localization of novel proteins identified by large-scale cDNA sequencing," <i>EMBO Rep.</i> 11:287-292, Oxford University Press (September 2000).

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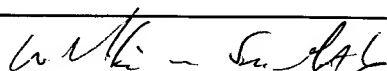
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	AR	<u>52</u>	Sizemore, C., <i>et al.</i> , "Quantitative analysis of <i>Tn10</i> Tet repressor binding to a complete set of <i>tet</i> operator mutants," <i>Nucl. Acids Res.</i> 18:2875-2880, Oxford University Press (1990).
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	AR	<u>53</u>	Spengler, S.J., <i>et al.</i> , "The Stereostructure of Knots and Catenanes Produced by Phage λ Integrative Recombination: Implications for Mechanism and DNA Structure," <i>Cell</i> 42:325-334, Massachusetts Institute of Technology (1985).
	AS	<u>53</u>	Sternberg, N., "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs," <i>Proc. Natl. Acad. Sci. USA</i> 87:103-107, National Academy of Sciences (1990).
	AT	<u>53</u>	Sternberg, N., <i>et al.</i> , "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," <i>Cold Spring Harbor Symp. Quant. Biol.</i> 45:297-309, Cold Spring Harbor Laboratory Press (1981).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>54</u>	Sternberg, N., <i>et al.</i> , "Bacteriophage P1 <i>cre</i> Gene and its Regulatory Region," <i>J. Mol. Biol.</i> 187:197-212, Academic Press, Inc. (1986).
	AS	<u>54</u>	Storck, T., <i>et al.</i> , "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," <i>Nucl. Acids Res.</i> 24:4594-4596, Oxford University Press (1996).
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EXAMINER	<i>W.A. Smith</i>	DATE CONSIDERED	3-30-03
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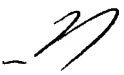


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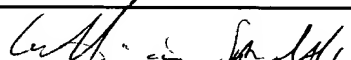
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	55	Thompson, J.F., <i>et al.</i> , "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," <i>J. Bacteriol.</i> 168:1343-1351, American Society of Microbiology (1986).
	AS	55	Thompson, J.F., <i>et al.</i> , "Helical-repeat dependence of integrative recombination of bacteriophage λ : Role of the P1 and H1 protein binding sites," <i>Proc. Natl. Acad. Sci. USA</i> 85:6323-6327, National Academy of Sciences (1988).
	AT	55	Thorpe, H.M., and Smith, M.C.M., "In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," <i>Proc. Natl. Acad. Sci. USA</i> 95:5505-5510, National Academy of Sciences (May 1998).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>56</u>	Tsurushita, N., <i>et al.</i> , "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," <i>Gene</i> 172:59-63, Elsevier Science Publishers B.V. (June 1996).
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>57</u>	Wang, G., <i>et al.</i> , "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 90:7874-7878, National Academy of Sciences (1993).
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	AP						Yes No

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	AR	<u>58</u>	Weisberg, R.A., and Landy, A., "Site-specific Recombination in Phage Lambda," in: <i>Lambda II</i> , Hendrix, R.W. <i>et al.</i> , eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).
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	AT	<u>58</u>	Wild, J., <i>et al.</i> , "A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," <i>Gene</i> 179:181-188, Elsevier Science Publishers B.V. (1996).

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	AR	<u>59</u>	Wild, J., <i>et al.</i> , "Targeting and retrofitting pre-existing libraries of transposon insertions with <i>FRT</i> and <i>oriV</i> elements for in-vivo generation of large quantities of any genomic fragment," <i>Gene</i> 223:55-66, Elsevier Science Publishers B.V. (1998).
	AS	<u>59</u>	Winoto, A., <i>et al.</i> , "Directional Control of Site-specific Recombination by Bacteriophage λ ," <i>J. Mol. Biol.</i> 192:677-680, Academic Press, Inc. (1986).
	AT	<u>59</u>	Yang, W., and Mizuuchi, K., "Site-specific recombination in plane view," <i>Structure</i> 5:1401-1406, Cell Press (November 1997).

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	AR	<u>61</u>	Zahra, D.G., <i>et al.</i> , "Selectable in-vivo recombination to increase antibody library size - an improved phage display vector system," <i>Gene</i> 227:49-54, Elsevier Science Publishers B.V. (1994).
	AS	<u>61</u>	Zhang, Y., <i>et al.</i> , "A new logic for DNA engineering using recombination in <i>Escherichia coli</i> ," <i>Nat. Genet.</i> 20:123-128, Nature Publishing Co. (October 1998).
	AT	<u>61</u>	Zhu, X.-D., <i>et al.</i> , "Homology Requirements for Ligation and Strand Exchange by the FLP Recombinase," <i>J. Biol. Chem.</i> 270:11646-11653, American Society for biochemistry and Molecular Biology (1995).

EXAMINER

Wdl. A. Smith

DATE CONSIDERED

3-30-03

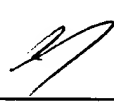

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000G/BJD/MTT	APPLICATION NO. 09/855,797
	APPLICANT HARTLEY <i>et al.</i>	
	FILING DATE May 16, 2000	GROUP 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>62</u>	Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 98/53056, WPI Accession No. 1999-000502/199901.
	AS	<u>62</u>	Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 99/25851, WPI Accession No. 1999-347485/199929.
	AT	<u>62</u>	

EXAMINER	<i>W.H.A. Smith</i>	DATE CONSIDERED	<i>3-30-03</i>
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